## (19) World Intellectual Property **Organization**

International Bureau





(43) International Publication Date 18 August 2005 (18.08.2005)

PCT

## (10) International Publication Number WO 2005/074973 A3

A61K 38/18, (51) International Patent Classification<sup>7</sup>: A61P 37/02, C12Q 1/68, G01N 33/68, C12Q 1/00

(21) International Application Number:

PCT/EP2005/000934

(22) International Filing Date: 31 January 2005 (31.01.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 0402051.7

29 January 2004 (29.01.2004) GB

(71) Applicant and

(72) Inventor: METCALFE, Susan, Marie [GB/GB]; 10 Fendon Road, Cambridge, CB1 7RT (GB).

(74) Agent: GEARY, Stephen; Bawden & Associates, 4 The Gatehouse, 2 High Street, Harpenden, Herts, AL5 2TH (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## **Published:**

with international search report

(88) Date of publication of the international search report: 8 December 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD OF INDUCING OR MODULATING IMMUNE RESPONSE

(57) Abstract: The use of axotrophin, also known as MARCH VII to induce or regulate immune response to an antigen whether foreign or self, suitably in a vertebrate, for example a mammal is disclosed. Isolated axotrophin and nucleotides and polypeptides encoded by or derived from axotrophin, compositions containing one or more thereof and assay methods are provided as further aspects of the invention.